

In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application

1. (Currently Amended): A method for controlling a plant system to achieve desired operating results, the system controlled by a control system, wherein an operator of the system is operable to provide setpoints defining desired operating goals of the system, comprising the steps of:

measuring select operating parameters of the plant system;

5 providing a plurality of transforms that define select actions setpoints to be taken input by [[an]] the operator of the plant system as a function of the measured select operating parameters, wherein each of the transforms is associated with a portion of the measured select operating parameters and with a predetermined condition of the plant system that is a function of the portion of the measured select operating parameters, and each of the transforms has embedded therein intuitive actions taken by actual
10 operators of the plant system to provide setpoints for the associated condition, and wherein each of the transforms is operable to determine if a the predetermined and associated condition exists in the plant system, which would warrant the associated action setpoint being taken set;

processing the measured select operating parameters through the associated transforms to determine for each of the transforms if the associated condition is present; and

15 providing to a user the operator an indication that the condition associated with any of the transforms is present and for which transform; and

suggesting to the user operator the action setpoint to be taken set for the associated indication and the suggested value thereof.

2. (Currently Amended): The method of Claim 1, and further comprising the step of controlling the operation of the plant system in accordance with one of the suggested actions by setting one or more of the setpoints to the operator suggested.

3. (Currently Amended): The method of Claim 1, wherein the step of the providing an indication comprises activating a panel display to provide a visual display to the user operator which is able to indicate to the user operator which of the transforms had its conditions met.

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4. (Currently Amended): The method of Claim 3, wherein the step of suggesting comprises generating a report to the user operator defining suggested control steps to be taken for the operation of the plant system.

5. (Currently Amended): The method of Claim 1, wherein the transforms comprise a set of rules determined by a history of operation of the plant system to achieve in part the desired operating results.

6. (Currently Amended): The method of Claim 5, wherein the step of providing the transforms comprises:

assembling a history of various observations of the operation of the plant system and actions setpoints to be taken set that have been observed to achieve a move of the plant system toward the desired operating results;

defining a decision tree that has embedded therein measurable variables of the plant system and/or inputs to the plant system and logic steps to define each of the assembled observations; and

fixing the decision tree path into a fixed rule as a transform operating on the associated measurable variables of the plant system and/or inputs to the plant system.

7. (Currently Amended): The method of Claim 1, wherein one of the select operating parameters of the plant system is a commercial operating parameter that defines the commercial operation of the plant system.

8. (Currently Amended): The method of Claim 7, wherein the plant is a power plant system and the commercial aspect constitutes the cost of generating power.

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